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REACTION DECOMPOSITION OF TETRAETHYLLEAD
FUEL. [1963] [20p] 15 refs

Order from SLA \$1.60

63-18973

Trans. of Brennstoff-Chemie (West Germany) 1953,
v. 34 [no. 5/6] p. 83-87.DESCRIPTORS: *Ethyl radicals, *Lead compounds,
*Gasoline, *Fuels, Decomposition, Hydrocarbons,
Antiknock, Combustion.

Autoclave experiments with a 10% ethyl fluid-gasoline
solution have shown that by use of a S-free gasoline,
lead bromide, lead oxide, lead triethyl bromide, and
oxidized hydrocarbons are formed as decomposition
products. The decomposition of ethyl fluid is highly
temperature-dependent. With temperatures up to
100°C and pressures from 20-60 kg./cm.² the main
(Materials--Fuels, TT, v. 10, no. 12) (over)

63-18973

1. Title: Tetraethyl lead
1. Widmaier, O.

6

Office of Technical Services

Widmaler, O.
INFLUENCE OF SULFUR COMPOUNDS UPON THE
KNOCK RATING AND RESIDUE FORMATION IN
LEADED FUELS. 28 Apr 47, 12p. (figs. omitted)
4 refs.

Order from OTS or SLA \$1.60

63-14309

Trans. of monn. [Einfluss von Schwefelverbindungen
auf die Klopfestigkeit und Rückstandabildung bei
Verbleiten Kraftstoffen] n.p., n.d., 7p. (PB-24136).

DESCRIPTORS: *Fuels, *Lead, Sulfur compounds,
Knocking, Collidals, *Fuel additives.

In general the addition of tetraethyllead to fuels calls
forth a certain reaction, varying with the type of
fuel, which results in an increase in the knock rating.
This so-called lead sensitivity depends upon the com-
position of the fuel and upon its treatment. It is very
high for the so-called straight-run fuels and com-
(Materials--Fuels, T3, v. 10, no. 3) (over)

63-14309

I. Widmaler, O.
II. PB-24136

Office of Technical Services

Widmaler, O.

A MORE SIMPLIFIED RAPID METHOD FOR THE DETERMINATION OF TETRAETHYLLEAD IN AIRCRAFT ENGINE FUELS. 17 Feb 48, 8p. (figs. omitted) 1 ref. Order from O/S or SLA \$1.10

63-10955

Trans. of mono. [Weiter Vereinfachtes Schnellverfahren zur Bestimmung des Bleitetraethylgehaltes in Flugmotorenkraftstoffen] n. p., 13 July 40 [13p.] (PB-36649).

DESCRIPTORS: *Aviation fuels, *Lead compounds, *Ethyl radicals, Quantitative analysis, Iodine, Alcohols, Solutions, Fuels.

The tetraethyllead content of aviation fuels has been determined in the past either gravimetrically as lead chromate and lead sulfate, or volumetrically by precipitation with excess potassium chromate and back titration of the excess. These methods yield good results, but (Materials--Fuels, TT, v. 10, no. 3)

(over)

63-10955

I. Widmaler, O.

II. PB-36 649

Office of Technical Services

Widmaier, C. and Nenninger, L.
DEVELOPMENT AND SIGNIFICANCE OF TETRA-
ETHYLLEAD AS AN ANTIKNOCK AGENT. 23 Feb 48,
40p. 302 refs.
Order from SLA \$3.60

63-14293

Trans. of [Technische Hochschule, Stuttgart.
Forschungsinstitut für Kraftfahrwesen und Fahrzeug-
motoren. Berichte] (Germany) 1942, v. 9, p. 109-121.

DESCRIPTION: *Lead compounds, *Ethyl radicals,
Fuel additives, Antiknock, Synthetics (Chemistry),
Quantitative analysis, Physiology, Bibliographies.

Contents:

Introduction and significance of tetraethyllead as an
antiknock agent

Historical review

Preparation of tetraethyllead

Forms in which tetraethyllead is used

63-14293

- I. Title: Tetraethyllead
1. Widmaier, C.
- II. Nenninger, L.

4445

Widmaier, O.
REACTION DECOMPOSITION OF TETRAETHYLLEAD
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*Gasoline, *Fuels, Decomposition, Hydrocarbons,
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products. The decomposition of ethyl fluid is highly
temperature-dependent. With temperatures up to
100°C and pressures from 20-60 kg./cm.² the main
(Materials--Fuels, IT, v. 10, no. 12) (over)

63-18973

1. Title: Tetraethyl lead
1. Widmaier, O.

6

Office of Technical Services

Product from ethyl fluid is lead oxide; at higher temperatures and different pressures the formation of $PbBr_2$ is favored. The lead triethyl bromide formed at low temperatures up to 10^4 °C and high pressures (60 kg./cm.²) has a favorable antiknock action. (Author)

PB.

63-18973

Widmaler, O.

INFLUENCE OF SULFUR COMPOUNDS UPON THE
KNOCK RATING AND RESIDUE FORMATION IN
LEADED FUELS. 28 Apr 47, 12p. (figs. omitted)
4 refs.

Order from OTS or SLA \$1.60

63-14309

Trans. of mono. [Einfluss von Schwefelverbindungen
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fuel, which results in an increase in the knock rating.
This so-called lead sensitivity depends upon the com-
position of the fuel and upon its treatment. It is very
high for the so-called straight-run fuels and com-
(Materials--Fuels, T.M. v. 10, no. 3)

(over)

63-14309

I. Widmaler, O.
II. PB-24136

Office of Technical Services

paratively low for cracked fuels. Since sulfuric acid is frequently used in the refining process the belief persists that traces of sulfur remaining in the fuels have an unfavorable effect. Artificially added sulfur compounds have, in fact, a significant effect. The results of the investigation show the influence of sulfur compounds upon the knock rating. In addition, a discussion is given of gum formation in sulfur-bearing treated fuels and their stability to light.
(Author)

PB- 63-14309

Widmaler, O.
A MORE SIMPLIFIED RAPID METHOD FOR THE DE-
TERMINATION OF TETRAETHYLLEAD IN AIRCRAFT
ENGINE FUELS. 17 Feb 48, 8p. (figs. omitted) 1 ref.
Order from OTS or SLA \$1.10
63-10955

63-10955

I. Widmaler, O.
II. PD-36 649

Trans. of mono. [Walter Vereinfachtes Schnellverfahren
zur Bestimmung des Bleitetraethylgehaltes in Flug-
motorenkraftstoffen] n.p., 13 July 40 [13p.] (PB-36449).

DESCRIPTORS: *Aviation fuels, *Lead compounds,
*Ethyl radicals, Quantitative analysis, Iodine, Alcohols,
Solutions, Fuels.

The tetraethyllead content of aviation fuels has been de-
termined in the past either gravimetrically as lead chro-
mate and lead sulfate, or volumetrically by precipita-
tion with excess potassium chromate and back titration
of the excess. These methods yield good results, but:
(Materials--Fuels, TT, v. 10, no. 3)

(over)

Office of Technical Services

have the disadvantage that a tetraethyllead determination requires 2 to 4 hours. The method recently developed in the FKRS, in which iodine is added to tetraethyllead in the form of a 1/10 normal aqueous iodine solution, resulted in considerable simplification. Further simplification and shortening of the time can be achieved by using an alcoholic iodine solution in place of the aqueous solution since, under these conditions, the unsaturated hydrocarbons are no longer attacked, and saturation of the solution with trichloroacetic acid is no longer necessary. (Author)

PB-

63-10955

Widmaier, O. and Nenninger, L.
DEVELOPMENT AND SIGNIFICANCE OF TETRA-
ETHYLLEAD AS AN ANTINKNOCK AGENT. 23 Feb 48.
40p. 302 refs.

Order from S.A. \$3.60

63-14293

Trans. of [Technische Hochschule, Stuttgart.
Forschungsinstitut für Kraftfahrwesen und Fahrzeug-
motoren. Berichte] (Germany) 1942, v. 9, p. 109-121.

DESCRIPTORS: *Lead compounds, *Ethyl radicals,
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Historical review

Preparation of tetraethyllead

Forms in which tetraethyllead is used

(Materials--Fuels, TT, v. 10, no. 6)

(over)

63-14293

I. Title: Tetraethyllead

I. Widmaier, O.

II. Nenninger, L.

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Office of Technical Services

Use of tetraethyllead as an antiknock agent
Physicochemical properties of tetraethyllead
Physiological effects of tetraethyllead
Detection and determination of tetraethyllead
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DESCRIPTIONS: Ferrites; Production; Permeability;
Permeability; Low temperature research; Hysteresis;
Magnetization; Ferromagnetic materials.

(See also C2-1563)

C2-1564

(P) See: Magnetism, IT, v. 9, no. 70

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DESCRIPTORS: Ferrites, Production, Ferromagnetic
materials, Ceramic materials, Ferrite cores,
Permeability, High frequency, Low temperature
research, Hysteresis.

(Physics--Magnetism, TT, v. 9, no. 7)

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DESCRIPTORS: *Electrical corona, Measurement,
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